



FORM PTO-1449

DOCKET NO:

SERIAL NO.:

55223 CIP2

09/847,055

INFORMATION DISCLOSURE  
STATEMENT

APPLICANT(S): P. Stark, et al.

FILING DATE:

May 1, 2001

GROUP NO.:

Unassigned

## UNITED STATES PATENT DOCUMENTS

EXAM. INITIAL S		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
0	AY	5,129,977	7-14-92	Leatherman	156	272.4	12-31-90
	AZ	4,476,184	10-9-84	Lubowitz et al.	428	288	8-9-83
	AAA	5,514,734	5-7-96	Maxfield et al.	523	204	7-10-95
	ABA	5,427,846	7-27-95	McGaffigan et al.	428	328	3-18-94
	ACA	5,208,443	5-4-93	McGaffigan	219	505	9-8-89
	ADA	5,126,521	6-30-92	McGaffigan	219	10.75	1-16-90
	AEA	4,987,291	11/15/89	McGaffigan et al	219	549	11-15-89
	AFA	5,240,542	8-31-93	Miller et al.	156	272.4	9-6-90
	AGA	5,378,879	1-3-95	Monovoukas	129	634	4-20-93
	AHA	5,603,795	2-18-97	Paulauskas et al.	156	272.4	9-1-94
	AIA	5,483,043	1-9-96	Sturman, Jr. et al.	219	647	11-29-93
	AJA	5,278,377	1-11-94	Tsai	219	759	11-27-91
	AKA	3,391,846	7-9-68	White	229	17	4-2-64

## FOREIGN PATENT DOCUMENTS



		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO

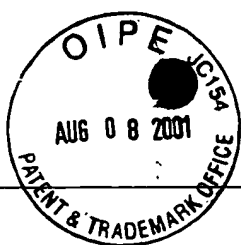
## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

0	CA*	Burnside, S.D. et al., "Synthesis and Properties of New Poly (Dimethylsiloxane) Nanocomposites", September 1995, Chemical Materials, Vol. 7, No. 9, pp. 1597-1600.
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					<b>SUBCLASS</b>
		<b>TRANSLATION YES/NO</b>			
<b>OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)</b>					
9	CB*	Giannelis, E.P., "Polymer Layered Silicate Nanocomposites", Advanced Materials, 1996, pp. 29-35, Vol. 8, No. 1, VCH, Weinham, Germany.			
	CC*	Hengzhen S., et al., "Interfacial Effects on the Reinforcement Propertie of polymer Organoclay Nanocomposites", 1996, pp. 379-384, Vol. 28, Elsevier Science BV.			
	CD*	Kojima, Y. et al., "Synthesis of Nylon 6-Clay Hybrid by Montmorillonite Intercalclulate with a-Caprolactam", 1993, Journal of Polymer Science, Part A, Vol. 33, pp. 1047-1057, John Wiley & Sons, New York.			
	CE*	Krishnamoorti et al. "Structure and Dynamics of Polymer-Layered Silicate Nanocomposites", Chemical Metrials, 1996, pp. 1728-1734, Vol. 8, No. 8, Amercian Chemical Society.			
	CF*	Lan, T. et al., "Clay-Reinforced Epoxy Nanocomposites", 1994 Chemical Materials, Vol. 6, pp.2216-2219, American Chemical Society.			
	CG*	Muzny, C.D. et al., "Clay Platelet Dispersion in A Polymer Matrix", Materials Letters, Octiober 1996, pp. 379-384, Vol. 28, Elsevier Science BV.			
	CH*	Ukrainczyk, L. et al., "Template Synthesis and Characterization of layered Al- and Mg-Silsesquioxanes", 1997, Journal of Physical chemistry, B, Vol. 101, No. 4, pp. 5310539, America Chemical Society.			
	CI*	Vaia, R.A. et al., "Microstructural Evolution of Melt Intercalated Polymer—Organically Modified Layered Silicates Nanocomposites", 1996, Chemical Materials, Vol. 8, pp. 2628-2635, American Chemical Society.			
	CJ*	Vaia, R.A. et al., "Synthesis and Properties of Two-Dimensional Nanostructures by Direct Intercalculution of polymer Melts in Layered Silicates", 1993, Chemical Materials, Vol. 5, pp. 1694-1696, American Chemical Society			
<b>EXAMINER:</b> 				<b>DATE:</b> 11/16/04	



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Q	AA	5,552,469	9-3-96	Beall et al.	524	445	6-7-95
	AB	4,745,264	5-17-88	Carter	219	553	10-30-84
	AC	5,133,710	7-28-92	Carter, Jr. et al.	606	28	11-29-89
	AD	5,300,750	4-5-94	Carter, Jr. et al.	219	605	10-10-91
	AE	5,294,763	3-15-94	Chamberlain et al.	219	729	9-26-90
	AF	6,048,599	4-11-00	Chu et al.	428	114	1-17-97
	AG	5,272,216	12-21-93	Clark, Jr. et al.	525	362	12-28-90
	AH	5,391,595	2-21-95	Clark, Jr. et al.	523	300	3-3-94
	AI	4,877,944	10-31-89	Cowell et al.	219	548	6-8-82
	AJ	5,134,265	7-28-92	Dickens et al.	219	10.491	2-16-90
	AK	5,643,390	7-1-97	Don et al	156	307.1	5-4-95
	AL	5,198,053	3-30-93	Duncan	156	64	8-8-91
	AM	5,538,581	7-23-96	Gallant	156	272.4	2-2-95
Q	AN	5,554,670	9-10-96	Giannelis et al.	523	209	9-12-94
	AO	5,304,269	4-19-94	Jacarusso	156	94	9-16-92
	AP	3,461,014	8-12-69	James	156	272	6-11-64
	AQ	4,680,140	7-14-87	Kageyama	252	512	1-29-86
	AR	4,776,979	10-11-88	Kageyama	252	512	3-23-87
	AS	5,938,979	8-17-99	Kambe et al.	252	500	10-31-97
	AT	5,248,864	9-28-93	Kodokian	219	10.41	7-30-91
	AU	5,340,428	8-23-94	Kodokian	156	272.2	11-20-92
	AV	2,393,541	1-22-46	Kohler	156	272.4	5-21-43
Q	AW	4,969,968	11-13-90	Leatherman	156	272.4	6-22-88
I	AX	5,481,799	1-9-96	McGaffigan et al.	29	879	4-12-94

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**UNITED STATES PATENT DOCUMENTS**

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO

**OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)**

CA	<del>Burnside, S.D. et al., "Synthesis and Properties of New Poly (Dimethylsiloxane) Nanocomposites", September 1995, Chemical Materials, Vol. 7, No. 9, pp. 1597-1600.</del>
CB	<del>Giannelis, E.P., "Polymer Layered Silicate Nanocomposites", Advanced Materials, 1996, pp. 29-35, Vol. 8, No. 1, VCH, Weinham, Germany.</del>
CC	<del>Hengzhen S., et al., "Interfacial Effects on the Reinforcement Properties of polymer Organoclay Nanocomposites", 1996, pp. 1584-1587, Vol. 8, No. 8, Chemical Materials, Elsevier Science BV.</del>
CD	<del>Kojima, Y. et al., "Synthesis of Nylon 6-Clay Hybrid by Montmorillonite Intercalated with - ε Caprolactam", 1993, Journal of Polymer Science, Part A, Vol. 31, pp. 983-986, John Wiley &amp; Sons, New York.</del>
CE	<del>Krishnamoorti et al. "Structure and Dynamics of Polymer-Layered Silicate Nanocomposites", Chemical Materials, 1996, pp. 1728-1734, Vol. 8, No. 8, American Chemical Society.</del>
CF	<del>Lan, T. et al., "Clay Reinforced Epoxy Nanocomposites", 1994 Chemical Materials, Vol. 6, pp. 2216-2219, American Chemical Society.</del>
CG	<del>Muzny, C.D. et al., "Clay Platelet Dispersion in A Polymer Matrix", Materials Letters, October 1996, pp. 379-384, Vol. 28, Elsevier Science BV.</del>
CH	<del>Ukrainczyk, L. et al., "Template Synthesis and Characterization of layered Al- and Mg-Silsesquioxanes", 1997, Journal of Physical chemistry, B, Vol. 101, No. 4, pp. 531-539, American Chemical Society.</del>
CI	<del>Vaia, R.A. et al., "Microstructural Evolution of Melt Intercalated Polymer—Organically Modified Layered Silicates Nanocomposites", 1996, Chemical Materials, Vol. 8, pp. 2628-2635, American Chemical Society.</del>
CJ	<del>Vaia, R.A. et al., "Synthesis and Properties of Two Dimensional Nanostructures by Direct Intercalation of polymer Melts in Layered Silicates", 1993, Chemical Materials, Vol. 5, pp. 1694-1696, American Chemical Society</del>

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	AA	<del>2,393,541</del>	<del>01/22/1946</del>	<del>Kohler</del>	20	0.5	
	AB	<del>3,391,849</del>	<del>07/09/1968</del>	<del>White, et al.</del>	229	17	
Q	AC	3,802,985	04/09/1974	Leatherman	156	244	
Q	AD	4,486,496	12/04/1984	Dezawa, et al.	428	328	
Q	AE	4,427,481	01/24/1984	Smith et al.	156	306.6	
Q	AF	4,693,775	09/15/1987	Harrison, et al.	156	272.4	
Q	AG	5,123,989	06/23/1992	Horiishi, et al.	156	272.4	
	AH	<del>5,248,864</del>	<del>09/28/1993</del>	<del>Kodokian</del>	219	10.41	
Q	AI	5,523,549	06/04/1996	Tenzer	219	730	

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